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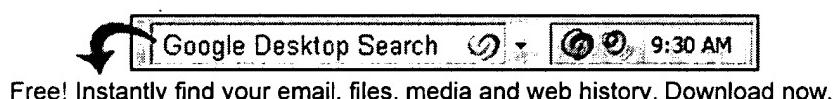
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1 [The HP AutoRAID hierarchical storage system](#)

John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan

February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1

Full text available:  pdf(1.82 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Configuring redundant disk arrays is a black art. To configure an array properly, a system administrator must understand the details of both the array and the workload it will support. Incorrect understanding of either, or changes in the workload over time, can lead to poor performance. We present a solution to this problem: a two-level storage hierarchy implemented inside a single disk-array controller. In the upper level of this hierarchy, two copies of active data are stored to provide f ...

Keywords: RAID, disk array, storage hierarchy

2 [Networks: An information-interconnectivity-based retrieval method for network attached storage](#)

Iliyak Georgiev, Ivo I. Georgiev

April 2004 **Proceedings of the 1st conference on Computing frontiers**

Full text available:  pdf(302.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Network attached disk storage is characterized by independent network attachment and embedded intelligence. For Internet applications, it provides the key functionality of geographical replication and intelligent retrieval of data objects. The paper describes a latency reducing method based on the relative interconnectivity between data objects. We follow the locality-of-reference principle to partition interrelated data objects on close disk areas or network storage nodes. The method incorporate ...

Keywords: interconnectivity-based retrieval, network attached storage, storage objects clustering

3 [RAID-II: a high-bandwidth network file server](#)

A. L. Drapeau, K. W. Shirriff, J. H. Hartman, E. L. Miller, S. Seshan, R. H. Katz, K. Lutz, D. A. Patterson, E. K. Lee, P. M. Chen, G. A. Gibson

April 1994 **ACM SIGARCH Computer Architecture News , Proceedings of the 21ST annual international symposium on Computer architecture**, Volume 22 Issue 2

Full text available:  pdf(1.43 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In 1989, the RAID (Redundant Arrays of Inexpensive Disks) group at U. C. Berkeley built a prototype disk array called RAID-I. The bandwidth delivered to clients by RAID-I was severely limited by the memory system bandwidth of the disk array's host workstation. We designed our second prototype, RAID-H, to deliver more of the disk array bandwidth to file server clients. A custom-built crossbar memory system called the XBUS board connects the disks directly to the high-speed network, allowing data ...

4 Future of simulation: Virtual machines for message based, real-time and interactive simulation

Hansoo Kim, Chen Zhou, Hua X. Du

December 2000 **Proceedings of the 32nd conference on Winter simulation**Full text available:  pdf(505.43 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

An advanced processing machine interacts with the material handling system, personnel and cell or shop floor controller in real-time via messaging and control. However, current simulation models are normally built with simulation software tools that are not designed to explicitly model machine interactions. In this research, we develop a modular design of simulation tools. One of the fundamental building blocks is the virtual machine module that simulates machine behavior in terms of state chang ...

5 The HP AutoRAID hierarchical storage system

J. Wilkes, R. Golding, C. Staelin, T. Sullivan

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles** Volume 29 Issue 5Full text available:  pdf(1.60 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available:  pdf(4.21 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

7 The TickerTAIP parallel RAID architecture

Pei Cao, Swee Boon Lin, Shivakumar Venkataraman, John Wilkes

August 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 3Full text available:  pdf(2.04 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditional disk arrays have a centralized architecture, with a single controller through which all requests flow. Such a controller is a single point of failure, and its performance limits the maximum number of disks to which the array can scale. We describe TickerTAIP, a parallel architecture for disk arrays that distributes the controller functions across several loosely coupled processors. The result is better scalability, fault tolerance, and flexibility. This article present ...

Keywords: RAID disk array, decentralized parity calculation, disk scheduling, distributed controller, fault tolerance, parallel controller, performance simulation

8 [801 storage: architecture and programming](#)

Albert Chang, Mark F. Mergen

February 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 1

Full text available:  pdf(1.87 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Based on novel architecture, the 801 minicomputer project has developed a low-level storage manager that can significantly simplify storage programming in subsystems and applications. The storage manager embodies three ideas: (1)large virtual storage, to contain all temporary data and permanent files for the active programs; (2) the innovation of database storage, which has implicit properties of access serializability and atomic update, similar to those o ...

9 [Analytic performance model of the U.S. en route air traffic control computer systems](#)

Sandra Bleistein, Shin-Sun Cho, Robert T. Goettge

August 1985 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1985 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 13 Issue 2

Full text available:  pdf(1.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An analytic performance modeling case study of a complex command and control computer system is presented. A queueing network model of the system was developed and validated. Features of the model found to be critical to its accuracy were detailed software models, general service time distributions, and models of transient response time behavior. Response time prediction accuracy of the model was validated to 20 percent for moderate device utilizations. The study shows that analytic techniq ...

10 [Storage systems for national information assets](#)

R. A. Coyne, H. Hulen, R. Watson

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**

Full text available:  pdf(725.87 KB)

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11 [Video Storage: System support for providing integrated services from networked multimedia storage servers](#)

Ravi Wijayaratne, A. L. Narasimha Reddy

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available:  pdf(227.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we describe our experience in building an integrated multimedia storage system, Prism. Our current Linux-based implementation of Prism provides three levels of service: deadline guarantees for *periodic* applications, best-effort better response times for *interactive* applications and starvation-free throughput guarantees for *aperiodic* applications. Prism separates resource allocation from resource scheduling. Resource allocation is controlled across the service ...

Keywords: admission control, disk, file systems, multimedia, scheduling

12 [Database system implementation: Performance analysis of a relational data base management system](#)

Paula Hawthorn, Michael Stonebraker

May 1979 **Proceedings of the 1979 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(1.46 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The effect on the performance of data management systems of the use of extended storage devices, multiple processors and prefetching data blocks is analyzed with respect to one system, INGRES. Benchmark query streams, derived from user queries, were run on the INGRES system and their CPU usage and data reference patterns traced. The results show that the performance characteristics of two query types: data-intensive queries and overhead-intensive queries, are so different that it may be difficult ...

13 Performance analysis of several back-end database architectures

Robert Brian Hagmann, Domenico Ferrari

March 1986 **ACM Transactions on Database Systems (TODS)**, Volume 11 Issue 1

Full text available:  pdf(1.54 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The growing acceptance of database systems makes their performance increasingly more important. One way to gain performance is to off-load some of the functions of the database system to a back-end computer. The problem is what functions should be off-loaded to maximize the benefits of distributed processing. Our approach to this problem consisted of constructing several variants of an existing relational database system, INGRES, that partition the database system software into two ...

14 Disk Drive Roadmap from the Thermal Perspective: A Case for Dynamic Thermal Management

Sudhanva Gurumurthi, Anand Sivasubramaniam, Vivek K. Natarajan

June 2005 **Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05**

Full text available:  pdf(243.57 KB)

Additional Information: [full citation](#), [abstract](#)

The importance of pushing the performance envelope of disk drives continues to grow, not just in the server market but also in numerous consumer electronics products. One of the most fundamental factors impacting disk drive design is the heat dissipation and its effect on drive reliability, since high temperatures can cause off-track errors, or even head crashes. Until now, drive manufacturers have continued to meet the 40% annual growth target of the internal data rates (IDR) by increasing RPMs ...

15 The Inca Test Harness and Reporting Framework

Shava Smallen, Catherine Olschanowsky, Kate Ericson, Pete Beckman, Jennifer M. Schopf
November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**

Full text available:  pdf(3.01 MB)

Additional Information: [full citation](#), [abstract](#)

Virtual organizations (VOs), communities that enable coordinated resource sharing among multiple sites, are becoming more prevalent in the high-performance computing community. In order to promote cross-site resource usability, most VOs prepare service agreements that include a minimum set of common resource functionality, starting with a common software stack and evolving into more complicated service and interoperability agreements. VO service agreements are often difficult to verify and maintain ...

16 The local disk controller

Gilbert E. Houtekamer

August 1985 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1985 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 13 Issue 2

Full text available:  pdf(1.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The performance of the I/O subsystem in the 370-XA architecture has been improved considerably with the introduction of the new channel subsystem, as compared to the System/370 architecture. The emphasis in the 370-XA architecture is on reducing the CPU load associated with I/O, and on reducing the congestion in multi-CPU, shared systems, by redesigning the channel system. In this paper we will show that a reallocation of the control unit logic may triple the channel subsystem's ...

17 Hierarchical VP restoration management system for a reliable ATM backbone network

Won-Kyu Hong, Choong-Seon Hong

July 2002 **International Journal of Network Management**, Volume 12 Issue 4

Full text available:  pdf(360.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a distributed ATM VP PVC restoration framework with the dynamic rerouting schemes in a hierarchical transport network. The rerouting algorithm aims to provide rapid ATM VP PVC restoration in the case of fault or performance degradation in terms of maximization of network resource utilization and satisfaction of the end user's QoS requirement.

18 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available:  pdf(5.28 MB)

Additional Information: [full citation](#)

19 High-speed distributed data handling for on-line instrumentation systems

William E. Johnston, William Greiman, Gary Hoo, Jason Lee, Brian Tierney, Craig Tull, Douglas Olson

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  pdf(438.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

The advent (and promise) of shared, widely available, high-speed networks provides the potential for new approaches to the collection, organization, storage, and analysis of high-speed and high-volume data streams from high data-rate, on-line instruments. We have worked in this area for several years, have identified and addressed a variety of problems associated with this scenario, and have evolved an architecture, implementations, and a monitoring methodology that have been successful in addre ...

20 Improving storage system availability with D-GRAID

Muthian Sivathanu, Vijayan Prabhakaran, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2

Full text available:  pdf(700.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the design, implementation, and evaluation of D-GRAID, a gracefully degrading and quickly recovering RAID storage array. D-GRAID ensures that most files within the file system remain available even when an unexpectedly high number of faults occur. D-GRAID achieves high availability through aggressive replication of semantically critical data, and fault-isolated placement of logically related data. D-GRAID also recovers from failures quickly, restoring only live file system data to a h

...

Keywords: Block-based storage, Disk array, RAID, fault isolation, file systems, smart disks

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